

ABSTRACT

A method for use by a telecommunication terminal (10) in
5 checking whether a candidate RAND in an EAP/SIM RAND challenge
is likely a replay, based on using a Bloom filter including a
vector data structure (21) for determining (admittedly
sometimes erroneously) whether the candidate RAND is in a set
10 of previously used RAND values. The components of the vector
data structure (21) are set to one or left at zero depending
on whether pointers corresponding to the previously used RAND
values point to them. The pointers can be hash functions or
can be constructed from the previously used RAND values. To
provide for smooth filter performance at points in time when
the Bloom filter is full and cannot hold information for any
new previously used RAND values, the vector data structure
15 (21) is partitioned into more than one part, and only one part
is reset and re-initialized at a time.